Marine Life Protection Act Initiative



Overview of North Coast Fisheries Uses and Value Project and Round 1 Evaluation of Potential Impacts to Commercial and Recreational Fisheries

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Project Overview

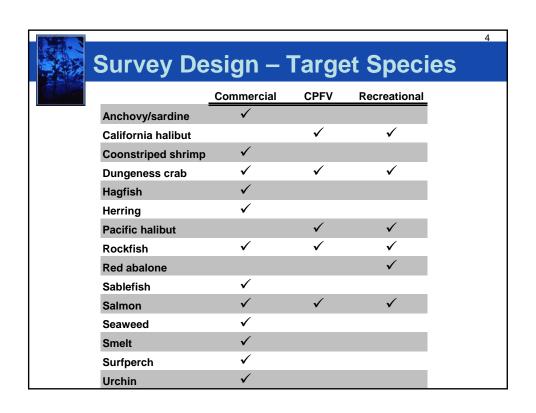
- Ecotrust contracted by MLPA Initiative to:
 - Supplement existing data
 - Collect data on commercial, commercial passenger fishing vessel (CPFV), and recreational fishing (use and values) to characterize the spatial extent and relative importance
 - Evaluate the maximum potential economic impact (gross and net) of marine protected area (MPA) proposals
 - Focus is on the fisheries, and not on regional multipliers of economic impact

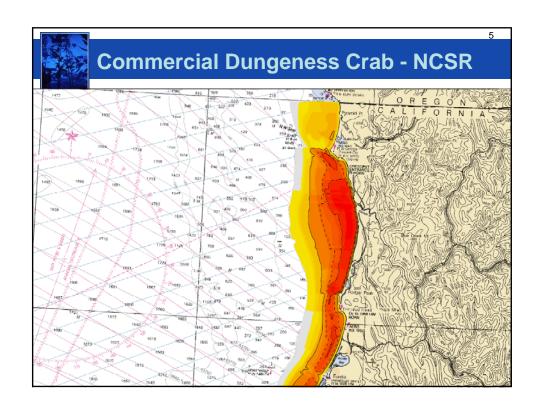
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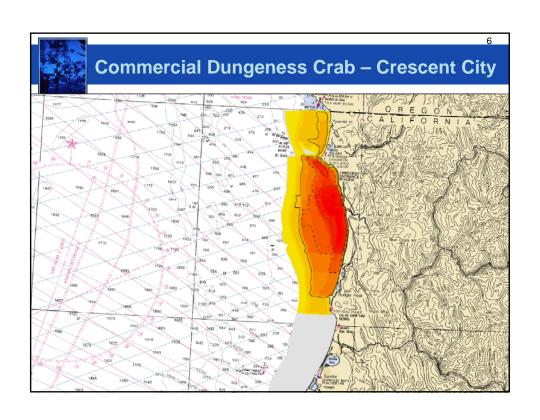


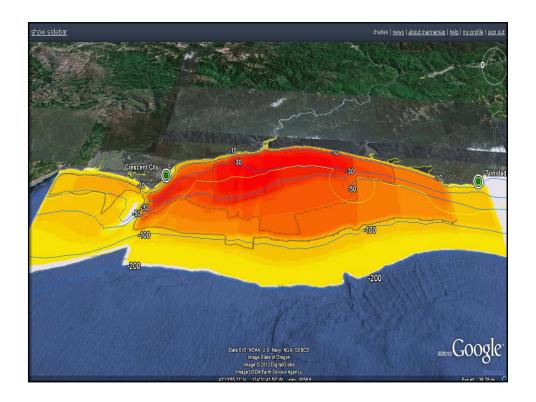
Survey Design

- Identify key fisheries in the region
 - Differentiate in terms of practices/gear type (commercial) and use type (recreational – private vessel, kayak and dive)
- Stratify study region into port complexes
- · Sampling goals:
 - At least 50% of the total ex-vessel revenue from 2000-07 by fishery, gear type, and port
 - At least 5 fishermen, except in cases where the overall population is <5, then 100%









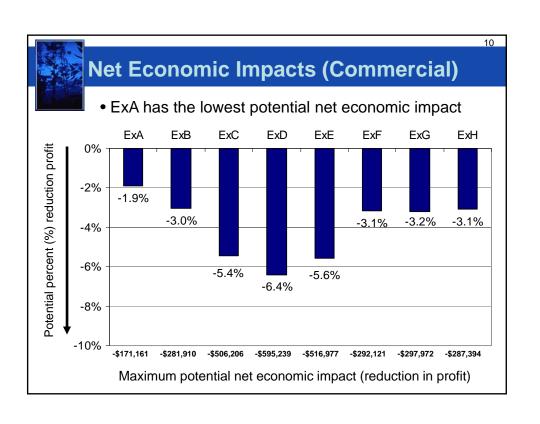


Round 1 Evaluation: Overview

 Reviewed existing MPAs and eight external proposed MPA arrays (ExA-ExH)

- Based on the aggregate fishing grounds and cost estimates derived from the data collection effort:
 - Determined percentage of area and value affected
 - Evaluated the maximum potential first order economic impact
 - Considered or identified "outliers" i.e., fishermen or fisheries likely to experience disproportional impacts
- Focus is on the fisheries, and not on regional multipliers
- For Round 1, tribal uses were not considered because science team currently does not have sufficient information to integrate tribal uses into evaluations
- For Round 1, MPAs in ExA were considered static

Evalu	ation Ov	erview	1			9	
	Commercial	nercial CPFV		Recreational			
# of fisheries	10 species	5 species		6 species			
Level of analysis	Port-fishery combinations	Port-fishery combinations		Results reported by user group (private vessel, kayak, dive) and by port			
Sample size	219	22		574			
**Repor	ted results repr	esent the <u>m</u>	<u>naximu</u>	m poter	ntial imp	<u>acts</u>	
			Comr	nercial	CPFV	Recreational	
Potential impacts on fishing grounds (area and stated value)				√	✓	✓	
Potential net economic impacts -1st order				✓	\checkmark		
Potential gross economic impacts -1st order				✓			
Disproportionate impacts on fisheries				✓	✓		
Disproportionate impacts on individuals				✓			



Net Economic Impacts (Commercial)												
	-		results re e., "wors	-			n poter	ntial				
	ExA	ExB	ExC	ExD	ExE	ExF	ExG	ExH				
Port	\$ Reduction in Profit											
Crescent City	\$56,539	\$188,222	\$295,276	\$301,187	\$319,332	\$196,909	\$196,909	\$192,241				
Trinidad	\$777	\$363	\$995	\$1,338	\$1,210	\$511	\$511	\$510				
Eureka	\$23,110	\$31,273	\$49,519	\$53,998	\$46,539	\$32,649	\$32,649	\$32,604				
Shelter Cove	\$1,365	\$62	\$1.113	\$2,315	\$167	\$62	\$62	\$62				
Fort Bragg	\$90,018	\$60,464	\$154,761	\$227,649	\$143,568	\$60,464	\$65,916	\$60,427				
Albion	\$4,351	\$1,526	\$4,542	\$8,752	\$6,160	\$1,526	\$1,925	\$1,550				
NCSR	\$176,161	\$281,910	\$506,206	\$595,239	\$516,977	\$292,121	\$297,972	\$287,394				
	% Reduction in Profit											
Crescent City	1.3%	4.4%	6.9%	7.0%	7.4%	4.6%	4.6%	4.5%				
Trinidad	0.1%	0.1%	0.1%	0.2%	0.2%	0.1%	0.1%	0.1%				
Eureka	1.1%	1.5%	2.4%	2.6%	2.3%	1.6%	1.6%	1.6%				
Shelter Cove	3.4%	0.2%	2.8%	5.8%	0.4%	0.2%	0.2%	0.2%				
Fort Bragg	4.4%	3.0%	7.6%	11.2%	7.1%	3.0%	3.2%	3.0%				
Albion	2.1%	0.7%	2.2%	4.3%	3.0%	0.7%	0.9%	0.8%				
NCSR	1.9%	3.0%	5.4%	6.4%	5.6%	3.1%	3.2%	3.1%				
			shallow and									

